

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent No.: 7,443,240 B2

Applicant(s): Hiroshi KATSUNAGA et al.

Issued: October 28, 2008 Customer No.: 85775

For: AM INTERMEDIATE FREQUENCY VARIABLE GAIN AMPLIFIER CIRCUIT,  
VARIABLE GAIN AMPLIFIER CIRCUIT AND ITS SEMICONDUCTOR  
INTEGRATED CIRCUIT

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Attached is Form PTO-1050.

- The error was the fault of the Patent and Trademark Office, no fee is required.
- The error was not the fault of the Patent and Trademark Office, please charge the requisite fee of \$100 to Deposit Account No. 504827, Order No. 1004378.53100.
- The Commissioner is hereby authorized to charge any additional fees which may be required by this paper, or credit any overpayment to Deposit Account No. 504827, Order No. 1004378.53100.

Respectfully submitted,  
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Dated: July 27, 2009

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**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,443,240 B2

ISSUED : October 28, 2008

INVENTOR(S): Hiroshi KATSUNAGA et al.

TITLE: AM INTERMEDIATE FREQUENCY VARIABLE GAIN AMPLIFIER CIRCUIT, VARIABLE GAIN AMPLIFIER CIRCUIT AND ITS SEMICONDUCTOR INTEGRATED CIRCUIT

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**In the Specification**

On Title Page 1, Item (73), please delete "Kabushiki Kaisha Toyota Jidoshokki, Kariya-Shi (JP); Niigata Seimitsu Co., Ltd., Joetsu-Shi (JP)" and insert therefore - - Niigata Seimitsu Co., Ltd., Joetsu-Shi (JP) --;

Column 1, line 45, please delete "referring to FIG. 5(a)-5(c)." and insert therefore - - referring to FIGS. 5(a)-5(c). --;

Column 1, lines 63-64, please delete "resulting in a reduced the drain current Id4" and insert therefore - - resulting in a reduced drain current Id4 --;

Column 2, lines 11-12, please delete "if the input signal level increase" and insert therefore - - if the input signal level increases --;

Column 2, lines 14-15, please delete "When it is considered that the current source 11 of the variable gain amplifier circuit 10" and insert therefore - - The current source 11 of the variable gain amplifier circuit 10 --;

Column 2, lines 40-41, please delete "if a control voltage applied to the gate of a p-channel MOS transistor 25," and insert therefore - - if a control voltage is applied to the gate of a p-channel MOS transistor 25, --;

Column 3, lines 14-15, please delete "for controlling the differential amplification gain of the first and second field-effect transistors, and a bias" and insert therefore - - for controlling the differential amplification gain of the first and second field-effect transistors is applied, and a bias --;

Column 4, line 51, please delete "variable gain amplifier circuit;" and insert therefore - - variable gain amplifier circuit; and --;

Column 5, line 63, please delete "Since constant current Is is supplied" and insert therefore - - Since constant current Is is supplied --;

Column 6, line 62, please delete "a current source 44 form a current mirror circuit," and insert therefore -- a current source 44 forming a current mirror circuit, --;

Column 8, lines 27-28, please delete "and the resistor R8, it can also comprise one MOS transistor." and insert therefore -- and the resistor R8, but can also comprise one MOS transistor. --; and

Column 8, lines 33-35, please delete "radio set and is can also be applied to the variable gain amplifier circuit of various circuits." and insert therefore -- radio set, but can also be applied to the variable gain amplifier circuit of various circuits. --.

### **In the Claims**

In Claim 3, column 9, lines 9-10, please delete "between a source of the first field-effect transistors" and insert therefore -- between a source of the first field-effect transistor --; and

In Claim 6, column 10, lines 1-3, please delete "a fifth field-effect transistor comprising source connected to a power supply" and insert therefore -- a fifth field-effect transistor comprising a source connected to a power supply --.

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